

Name _____

Thermometer Investigation

1. With your partner, closely examine the thermometer you have been given. Discuss and write your answers to the following questions:

- A. Where is most of the liquid in your thermometer?
- B. What is the temperature range of your thermometer?
- C. In what units does your thermometer measure temperature?
- D. What do you notice about the distance between the marks on the scale of your thermometer?

2. Hold the bulb on the thermometer (the red end) in your hand. Discuss and write your answers to the following questions:

- A. What happens to the red liquid?
- B. What temperature does it reach?
- C. What happens to the reading when you let go of the bulb and hold on to the other end of the thermometer?
- D. Why do you think the liquid in the thermometer moves?

3. When temperature increases, what happens to the:

A. Volume of liquid inside the thermometer _____

B. Mass of liquid inside the thermometer _____

4. Draw a design for a thermometer you could create, if given the materials shown in class. Use a ruler and label your diagram.

5. Explain the procedure for calibrating your thermometer.